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2012-13 Activities

This past year saw the finishing of some plans and projects, the continuation of many, and the beginnings of new projects.

Aquatic Plant Management Plan Periodically Beaver Dam Lake District conducts a major plan to set the course of treatment for the invasive species Eurasian Water Milfoil (EWM) and Curly-leafed Pondweed (CLP). We kicked off this planning effort at the annual meeting in 2011 and worked hard on it for a year and a half. Our thanks go to our local committee, chaired by John Ostrem and including Ann Mike, Bob Fleming, John Thon, Robert Ruppel and Tom Schroeder, who collected and analyzed your input and recommended goals to the BDLMD board. Meg Rattei of Barr Engineering did the writing of the plan. Then this past winter we had a good productive meeting with Alex Smith and Kevin Gauthier of the DNR that led to the approval of this plan. It is our hope and intent that we may be able to use a continual improvement model with annual updates to keep this plan relevant far into the future.

Chemical treatment As always, actual treatment of invasive EWM and CLP took most of the budget and much of our effort. Kevin Kretsch of Lake Restoration Incorporated, supervises this effort and will be with us at the annual meeting to discuss in more detail. It's hard to remember that several years ago we were in a serious drought, and one of the unusual chemical treatments we needed to do was to treat canary reed-grass that was blocking the outlet channel. The channel condition has been continually monitored since and any reoccurrence of the Reed canary grass has been treated. Perhaps this year it will stay wet and open enough to keep itself clean.

Boat Monitors While we already have a couple of bad

invasive species, there are more out there. We don't want any more, and we don't want to send ours elsewhere. The City of Cumberland does the actual hiring and supervision of the monitors, so the Lake District doesn't need employees and payroll. Keith Hardie, Public Works Director has applied for and received DNR grants for monitors and BDLMD pays for the match percentage and/or other costs.

Walleye stocking - In even numbered years we stock walleyes and in odd numbered years the DNR does. Last fall we stocked 6500, 7-9 inch walleyes, splitting the load between east and west portions of the lake.

Power Loading - Don't do it! Some boaters use their large motors to drive their boats onto their trailers. This causes a lot of scouring of the bottom, creating a deep hole that makes backing in trailers difficult and/or dangerous. Last Fall the BDLMD split repair costs with the City of Cumberland to fix the damage.

Grove Street Bridge - Twenty years of sedimentation had filled in the area around and under the Post Office bridge. Tom Schroeder led an intrepid crew of stalwarts as they mucked out the bridge to an area where Dave DeSantis could reach the material with his excavator. A total of approximately 90 yards of material was removed.

Stormwater Treatment Pond - After years of

preparation, applying for and receiving grants, and making plans, we finally were able to make a positive "on-the-ground" step towards improving the water quality of Beaver Dam Lake. Opportunistically, we were able to create a storm water wetland cell west of the Grove Street bridge, at the same time as the City was doing major infrastructure work connecting the new water tower. This saved costs for both the City and the Lake District. Cheryl Clemens of Harmony Environmental did most of the grant writing for this and other projects, and Jay Michels of Emmons and Olivier Resources (EOR) was our man on the scene throughout. Step by step we will continue to make a difference in our water quality.

Cooperation with the City of Cumberland - Boat monitors, Reed Canary grass, fixing boat ramps after the power loaders, planning and implementing all the activities along Grove Street; there have been a lot of causes to say "thank you" to the City of Cumberland for the cooperation and coordination that goes on to make things happen. We all want the same thing, a beautiful lake, vibrant small city, and this past year we've worked hard towards those goals.

Dave Evenson, Pres, BDLMD

Beaver Dam Lake Shoreline Habitat Assessment

A key element in the awarding of grants by the WDNR is the number of points that an applicant has accumulated by completing various lake improvement projects, public education, awareness and information efforts, and lake monitoring programs.

One high point project is an assessment of the lake shoreline habitat. The purpose of the habitat assessment consists of observing the composition of the shoreline and the buffer zone (what exists within 35 feet of the water line). A structure within the 35 feet such as boat houses, storage sheds, and even homes is noted. Whether the shoreline is natural, woody structure, rip rapped, sand beach, lawn or landscaped, along with any impervious surfaces, including steps

and ramp walkways, boat ramps, roofs of structures and patios is recorded.

Last Sept., with the approval of the BDLMD board to do a lake habitat assessment, a volunteer group of Beaver Dam Lake District members attended training that covered the process that would be used to record the data. The lake was divided into sections for the various teams to cover. This spring the members were out on the lake gathering the data. The data will provide an comprehensive oversight of what the Beaver Dam shoreline consists of and will be useful for Lake District member's efforts to address issues that can help maintain our valuable asset.

A big thank you to the volunteers that made this project a success.

A BIG THANK YOU!

The board would like to take this opportunity to thank outgoing president Dave Evenson for his past service. He has decided not to run for another term on the board. Dave has been on the board since 2004 and has served as president since 2007.

Thanks, Dave!

Also a big thank you to outgoing commissioner, Paul Flottum. Paul has been on the board since 2009 and has decided not to run again. Thanks, Paul!

The board is always looking for great people who are interested in keeping our lake healthy! If interested, please contact any current board member.

Beaver Dam Lake Level Management

The past year was a challenge when it came to managing the lake level. In Spring of 2012, the lake was over 10 inches higher than the “normal” level approved by the WDNR of 1230.55 at the Dam on Hwy P. Once the lake level approached “normal” level in early June, the dam gate was kept slightly open to allow some water to flow down stream, in an effort to keep the reed canary grass from reestablishing in the channel.

However, as the lack of rainfall in the area persisted, the dam gate was closed completely by mid July, 2013. Due to the continued drought and evaporation, and the dam gate remaining fully closed, by Sept. the lake was 1 foot below the “normal” level. Throughout the winter the dam gate remained closed until the spring thaw. With the Spring thaw and rains, the lake has risen beyond the “normal” level, the gate has been operated in such a manner as to keep the lake level slightly above the “normal” level.

When discussing the lake level with many Lake District residents, the writer has been offered many

varying opinions as to the “ideal” lake level. Some like the lake lower than the WDNR approved level, while some prefer it to be higher. Recognizing that when the lake level is high, damage to the shoreline by wave action in the summer and ice expansion in the winter can occur. Therefore, the goal is to keep the lake level a few inches above the “normal” lake level, from June 1, to mid Sept. in normal conditions. If a wet period develops, the lake will be brought closer to the normal to allow for storm storage.

The lake will be lowered to a point 6” below the normal level starting October 15th to reach the winter level by Nov. 1st. This should protect hibernating amphibians and reptiles. The lower winter levels are intended to get the ice pressure off of the shorelines.

A reminder to all boaters, please observe the “No Wake” zone areas, the speed restrictions close to shore, and required distances from other boats while under power. Have a safe, and enjoyable boating season.

Lake Quality Testing Results for 2012

The average summer (July-Aug) secchi disk reading for Beaver Dam Lake - NE Of Eagle Pt At Deepest Section (Barron County, WBIC: 2081200) was 18.5 feet. The average for the Northwest Georegion was 7.6 feet. Typically the summer (July-Aug) water was reported as CLEAR and BLUE.

Chemistry data was collected on Beaver Dam Lake - NE Of Eagle Pt At Deepest Section. The average summer Chlorophyll was 1.5 µg/l (compared to a Northwest Georegion summer average of 110.7 µg/l). The summer Total Phosphorus average was 11 µg/l. Lakes that have more than 20 µg/l and impoundments that have more than 30 µg/l of total phosphorus may experience noticeable algae blooms.

The overall Trophic State Index (based on chlorophyll) for Beaver Dam Lake - NE Of Eagle Pt At Deepest Section was 38. The TSI suggests that

Beaver Dam Lake - NE Of Eagle Pt At Deepest Section was oligotrophic. This TSI suggests deeper lakes still oligotrophic, but bottom water of some shallower lakes will become oxygen-depleted during the summer.

For anyone who is interested in the results of current or past water quality testing, they are available on the DNR webpage. You may access the results at: <http://dnr.wi.gov/lakes/CLMN/> then click Barron County and then any lake or individual bay you may be interested in looking at the data.

Every lake in the State that does testing is on the site, so it's very interesting to compare Beaver Dam Lake to others. Our lake is among the best in Barron County.

The DNR web site itself is very interesting. There is a wealth of information there. Try it sometime!

Annual Meeting of the Beaver Dam Lake Management District
Saturday, July 6th”, 2013 at 9:30AM
Middle School Commons
(Doors open at 9:00AM for Poster Displays)

Pursuant to Sec. 33.30 (1) of the Wisconsin Statutes and the by-laws of the Beaver Dam Lake Management District, the annual meeting and budget hearing will be held at the Cumberland Middle School Commons Area at 9:30A.M. on Saturday July6th, 2013. Displays and Maps for weed control will be available for viewing at 9:00AM.

Proposed Budget

<u>Revenues</u>		<u>Expenses</u>	
Tax Rev.(Est mil rate0.90)	\$210,723	Mailings,Notices,Mtgs	\$3,000
AIS Herbicide Monitoring Grant AEPP 391-13	\$24,277	Stormwater/Outflow Grant Matches	\$65,000
		Milfoil/CLP Control with Plant Surveys	\$147,900
		Aquatic Plant Mgmt Plan-ongoing	\$5,000
		Insurance	\$4,300
		Boat Landing Monitors	\$2,800
		Fireworks	\$1,000
		Water Safety	\$1,000
		Water Flow Monitors	\$5,000
		Walleye Stocking	
Subtotal	\$235,000	Subtotal:	\$235,000

Annual Meeting Agenda, July 6, 2013

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| 1. Welcome and Introductions | Dave Evenson |
| 2. Approval of 2012 Annual Meeting Minutes | Nancy Bentz |
| 3. Treasurer’s Report | Dr Alan Carlson |
| 4. Audit Report | Mary Biros-Rogers |
| 4. Election of Commissioners | Dr Alan Carlson |
| 5. Aquatic Plant Treatment Program | Kevin Kretsch, Lake Restoration Inc |
| 6. Water Quality Improvements | Jay Michels, EOR |
| 7.. Review of District Activities | Dave Evenson |
| 8. Shoreline Habitat Assessment | Tom Schroeder |
| 7. Budget for 2012-13, Questions and answers, Approval | Dr Alan Carlson |
| 8. Other items as needed | |
| 9. Adjourn | |

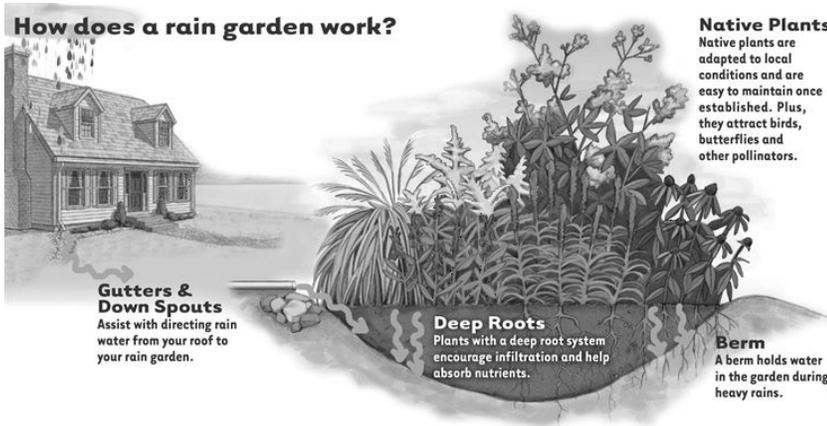
RAINGARDENS FOR HOMEOWNERS

Why are rain gardens important? As cities and suburbs grow and replace forests and agricultural land, increased stormwater runoff from impervious surfaces becomes a problem. Stormwater runoff from developed areas carries pollutants from streets, parking lots and even lawns into local streams and lakes; and leads to costly municipal improvements in stormwater treatment structures.

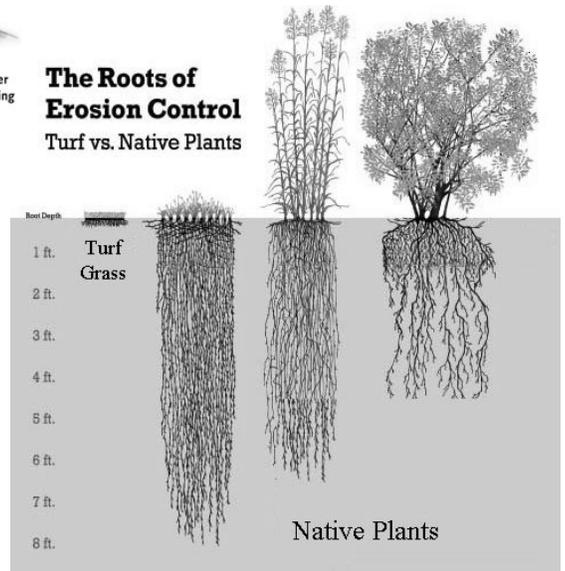
While rain gardens are a highly functional way to help protect water quality, they are also gardens and should be an attractive part of your yard and neighborhood. Think of the rain garden in the context of your home's overall landscape design. Here are a few tips: When choosing native plants for the garden, it is important to consider the height of each plant, bloom time and color, and its overall texture. Use plants that bloom at different times to create a long flowering season. Mix heights, shapes, and textures to give the garden depth and dimension. This will

Keep the rain garden looking interesting Even when few wildflowers are in bloom.

For more information. Download this pdf from our website: *"How to Manual for Homeowners"*



Landscaped areas planted to wild flowers and other native vegetation that soak up rain water, mainly from the roof of a house or other building. The rain garden fills with a few inches of water after a storm and the water slowly filters into the ground rather than running off to a storm drain. Compared to a conventional patch of lawn, a rain garden allows about 30% more water to soak into the ground.

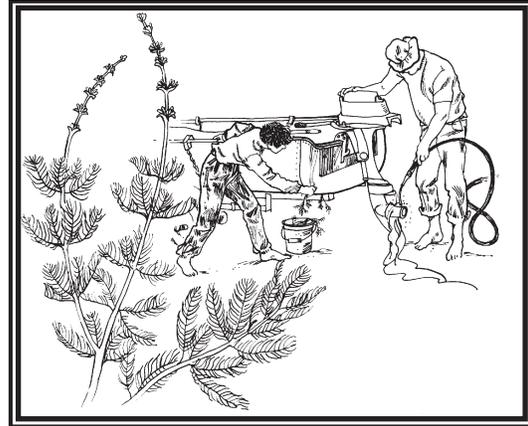


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Upcoming Events:

July 6th, 2013 9:30 AM

Annual Meeting and Budget Hearing of
Beaver Dam Lake Management District
See agenda inside.



Help Prevent The Spread Of Aquatic Invasives.
Clean It Off! It's the Law!!!

Or Current Resident

Beaver Dam Lake
Management District
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